

Recombinant Human XCL1 protein

Cat. No. XCL1-05H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human XCL1 protein was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	92
Description	Chemokine (C motif) ligand (XCL1), as known as lymphotactin, is the only known member of the C-chemokine family and signals through the receptor XCR1, formally known as GPR5. The expression of lymphotactin is abundant in some activated T cells such as activated CD8+ T cells and other class I MHC restricted T cells. It is found in high levels in spleen, thymus, intestine and peripheral blood leukocytes, and at lower levels in lung, prostate gland and ovary. XCL1 induces its chemotactic function by binding to a chemokine receptor called XCR1. Recombinant Human XCL1 which is a single non-glycosylated polypeptide chains containing 92 amino acids and it shares approximately 60 % amino acid sequence homology with the murine and rat protein.
Form	Lyophilized from a 0.2µm filtered concentrated solution in 20 mM PB, pH 7.4, 150 mM NaCl.
Bio-activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human T-lymphocytes is in a concentration of 10-100 ng/ml.

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Molecular Mass	Approximately 10.2 kDa, a single non-glycosylated polypeptide chain containing 92 amino acids.
AA Sequence	GSEVSDKRTCVSLLTQRLPVSRIKTYTITEGSLRAVIFITKRLKVCADPQATWVRDV VRSMDRKSNTNRNNMIQTKPTGTQQSTNTAVTLTG
Endotoxin	Less than 1 EU/μg of rHuLymphotoxin/XCL1 as determined by LAL method.
Purity	>98% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	XCL1
Official Symbol	XCL1
Synonyms	XCL1; chemokine (C motif) ligand 1; LTN, SCYC1, small inducible cytokine subfamily C, member 1 (lymphotoxin); lymphotoxin; ATAC; LPTN; SCM 1; SCM 1a; SCM-1-alpha; lymphotoxin; cytokine SCM-1; c motif chemokine 1; XC chemokine ligand 1; single cysteine motif 1a; small-inducible cytokine C1; small inducible cytokine

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subfamily C, member 1 (lymphotactin); LTN; SCM1; SCM-1; SCM1A; SCYC1; SCM-1a;

Gene ID [6375](#)

mRNA Refseq [NM_002995](#)

Protein Refseq [NP_002986](#)

MIM [600250](#)

UniProt ID [P47992](#)

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